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<u>L8</u>	Chappell and chimeric	50	<u>L8</u>
<u>L7</u>	Chappell-Joseph-\$.in.	2	<u>L7</u>

DB=USPT,DWPI; PLUR=YES; OP=OR

<u>L6</u>	Chappell-Joseph-\$.in.	2	<u>L6</u>
<u>L5</u>	L1 and plant	0	<u>L5</u>
<u>L4</u>	chappell-j-\$.in. and plant	0	<u>L4</u>
<u>L3</u>	chappell-jos-\$.in.	0	<u>L3</u>
<u>L2</u>	chappell-joseph-\$.in.	2	<u>L2</u>
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NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	19	May 19	Simultaneous left and right truncation added to WSCA
NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available

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 NEWS 25 Jul 16 Data from 1960-1976 added to RDISCLOSURE
 NEWS 26 Jul 21 Identification of STN records implemented
 NEWS 27 Jul 21 Polymer class term count added to REGISTRY
 NEWS 28 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous
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Right Truncation available

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=> s isoprenoid(w)synthase and plant
 L1 5 ISOPRENOID(W) SYNTHASE AND PLANT

=> d 11 1-5

L1 ANSWER 1 OF 5 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the
United States

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reserved.

(2003) on STN

AN 1998:82677 AGRICOLA

DN IND21806569

TI Biochemical characterization of stromal and thylakoid-bound
isoforms of

isoprene synthase in willow leaves.

AU Wildermuth, M.C.; Fall, R.

CS University of Colorado, Boulder, CO.

AV DNAL (450 P692)

SO Plant physiology, Mar 1998. Vol. 116, No. 3. p. 1111-1123

Publisher: Rockville, MD : American Society of Plant

Physiologists, 1926-

CODEN: PLPHAY; ISSN: 0032-0889

NTE Includes references

CY Maryland; United States

DT Article; Conference

FS U.S. Imprints not USDA, Experiment or Extension

LA English

L1 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
on STN

AN 1998:218093 BIOSIS

DN PREV199800218093

TI Biochemical characterization of stromal and thylakoid-bound
isoforms of

isoprene synthase in willow leaves.

AU Wildermuth, Mary C.; Fall, Ray (1)

CS (1) Cooperative Inst. Res. Environ. Sci., Univ. Colo., Boulder,
CO

80309-0215 USA

SO Plant Physiology (Rockville), (March, 1998) Vol. 116, No. 3, pp.
1111-1123.

ISSN: 0032-0889.

DT Article

LA English

L1 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:207025 CAPLUS

DN 129:2001

TI Biochemical characterization of stromal and thylakoid-bound
isoforms of

isoprene synthase in willow leaves

AU Wildermuth, Mary C.; Fall, Ray

CS Department of Chemistry and Biochemistry, University of
Colorado, Boulder,
CO, 80309-0215, USA

SO Plant Physiology (1998), 116(3), 1111-1123
CODEN: PLPHAY; ISSN: 0032-0889

PB American Society of Plant Physiologists

DT Journal

LA English

RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:15856 CAPLUS

DN 128:99975

TI Transcriptional silencing elements from **isoprenoid**
synthase genes of tobacco and the proteins binding them

IN Chappell, Joseph; Newman, Jeffrey D.; Yin, Shaohui

PA Board of Trustees of the University of Kentucky, USA

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9747754	A1	19971218	WO 1997-US10178	19970613
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,				
CZ, DE,	DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP,				
KR, KZ,	LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,				
NZ, PL,	PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG,				
UZ, VN,	YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES,				
FI, FR,	GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,				
CM, GA,	GN, ML, MR, NE, SN, TD, TG				
	AU 9733893	A1	19980107	AU 1997-33893	19970613
	CN 1227608	A	19990901	CN 1997-197140	19970613
	EP 979293	A1	20000216	EP 1997-929953	19970613
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
MC, PT,	IE, SI, FI				
	JP 2001502885	T2	20010306	JP 1998-501823	19970613
PRAI	US 1996-20087P	P	19960613		
	WO 1997-US10178	W	19970613		

L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:696645 CAPLUS
 DN 127:343337
 TI **Isoprenoid synthase** fusion proteins and their use in
 the preparation of novel isoprenoids
 IN Chappell, Joseph; Back, Kyoungwhan
 PA University of Kentucky, USA
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9738703	A1	19971023	WO 1997-US5986	19970411
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,				
CZ, DE,	DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR,				
KZ, LC,	LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,				
PL, PT,	RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ,				
VN, YU,	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI,				
FR, GB,	GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,				
GA, GN,	ML, MR, NE, SN, TD, TG				
	US 5824774	A	19981020	US 1996-631341	19960412
	CA 2250712	AA	19971023	CA 1997-2250712	19970411
	ZA 9703108	A	19971104	ZA 1997-3108	19970411
	AU 9727264	A1	19971107	AU 1997-27264	19970411
	EP 904095	A1	19990331	EP 1997-921142	19970411
	EP 904095	B1	20020904		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
PT, IE,	SI, FI				
	BR 9708650	A	19990803	BR 1997-8650	19970411
	AP 808	A	20000229	AP 1997-971	19970411
	W: BW, GM, GH, KE, LS, MW, SD, SZ, UG, ZM, ZW				
	JP 2000508899	T2	20000718	JP 1997-537218	19970411
	EP 1229122	A2	20020807	EP 2002-9895	19970411
	EP 1229122	A3	20021009		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
PT, IE,	SI, FI				
	AT 223225	E	20020915	AT 1997-921142	19970411
	ES 2132046	T3	20030316	ES 1997-921142	19970411
	US 6072045	A	20000606	US 1998-134699	19980814
	KR 2000005385	A	20000125	KR 1998-708111	19981012
PRAI	US 1996-631341	A	19960412		

EP 1997-921142 A3 19970411
WO 1997-US5986 W 19970411

=> s isoprenoid(w)synthase and mevalonate
L2 0 ISOPRENOID(W) SYNTHASE AND MEVALONATE

=> s isoprenoid(w)synthase and chimera
L3 0 ISOPRENOID(W) SYNTHASE AND CHIMERA

=> s terpene(w)synthase
L4 115 TERPENE(W) SYNTHASE

=> duplicate remove l4
DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'
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L6 0 L5 AND CHIMERA

=> s l5 and chimeric
L7 1 L5 AND CHIMERIC

=> d l7

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:475787 CAPLUS
DN 133:100421
TI Nucleic acid cloning without restriction enzymes
IN Jarrell, Kevin A.; Coljee, Vincent W.; Donahue, William;
Mikheeva,

 Svetlana
PA Trustees of Boston University, USA
SO PCT Int. Appl., 93 pp.
 CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2000040715	A2	20000713	WO 2000-US189	20000105
	WO 2000040715	A3	20010208		
	WO 2000040715	C2	20020829		
	W: AU, CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,				
MC, NL,					
	PT, SE				
	US 6358712	B1	20020319	US 1999-225990	19990105
	CA 2360011	AA	20000713	CA 2000-2360011	20000105

EP 1141275	A2	20011010	EP 2000-915689	20000105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
MC, PT,	IE, FI			
JP 2002537762	T2	20021112	JP 2000-592412	20000105
US 2003017552	A1	20030123	US 2001-910354	20010720
PRAI US 1999-114909P	P	19990105		
US 1999-225990	A	19990105		
WO 2000-US189	W	20000105		
US 2000-219820P	P	20000721		
US 2001-897712	A	20010629		

=> d 17 1 ab

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

AB The present invention provides an improved system for linking nucleic

acids to one another. In particular, the present invention provides

techniques for producing DNA product mols. that may be easily and directly

ligated to recipient mols. The product mols. need not be cleaved with

restriction enzymes in order to undergo such ligation. For example,

through the use of primers contg. ribonucleosides at their 5'-terminus., a

double-stranded nucleic acid may be prepd., each strand of which contains

a 5'-RNA end. Incubation at high pH removes the RNA, leaving a double-stranded DNA with overhanging 3'-ends. These type of DNA may be

annealed to other such DNA mols. having complementary ends, then ligated.

In preferred embodiments of the invention, the DNA product mols. are

produced through iterative DNA synthesis reactions, so that the product

mols. are amplified products. The invention further provides methods for

directed ligation of product mols. (i. e., for selective ligation of

certain mols. within a collection of mols.), and also for methods of exon

shuffling, in which multiple different product mols. are produced in a

single ligation reaction. Preferred embodiments of the invention involve

ligation of product mols. encoding functional protein domains, particularly domains naturally found in conserved gene families.

The

inventive DNA manipulation system is readily integrated with other nucleic acid manipulation systems, such as ribozyme-mediated systems, and also is susceptible to automation.

=> s 15 and structure

L8 13 L5 AND STRUCTURE

=> d 18 1-13

L8 ANSWER 1 OF 13 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

(2003) on STN

AN 2003:37716 AGRICOLA

DN IND23329915

TI The maize gene **terpene synthase 1** encodes a sesquiterpene synthase catalyzing the formation of

(E)-beta-farnesene,

(E)-nerolidol, and (E,E)-farnesol after herbivore damage.

AU Schnee, C.; Kollner, T.G.; Gershenzon, J.; Degenhardt, J.

AV DNAL (450 P692)

SO Plant physiology, Dec 2002. Vol. 130, No. 4. p. 2049-2060

Publisher: Rockville, MD : American Society of Plant

Physiologists, 1926-

CODEN: PLPHAY; ISSN: 0032-0889

NTE Includes references

CY Maryland; United States

DT Article; Conference

FS U.S. Imprints not USDA, Experiment or Extension

LA English

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AN 2003:34505 AGRICOLA

DN IND23323726

TI Methyl jasmonate induces traumatic resin ducts, terpenoid resin biosynthesis, and terpenoid accumulation in developing xylem of

Norway

spruce stems.

AU Martin, D.; Tholl, D.; Gershenzon, J.; Bohlmann, J.

AV DNAL (450 P692)
SO Plant physiology, July 2002. Vol. 129, No. 3. p. 1003-1018
Publisher: Rockville, MD : American Society of Plant

Physiologists, 1926-
CODEN: PLPHAY; ISSN: 0032-0889

NTE Includes references
CY Maryland; United States
DT Article; Conference
FS U.S. Imprints not USDA, Experiment or Extension
LA English

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(2003) on STN

AN 1998:39557 AGRICOLA
DN IND21075488
TI **Structure**, organization and putative function of the genes
identified within a 23.9-kb fragment from Arabidopsis thaliana
chromosome
IV.

AU Aubourg, S.; Takvorian, A.; Cheron, A.; Kreis, M.; Lecharny, A.

AV DNAL (QH442.A1G4)

SO Gene, Oct 15, 1997. Vol. 199, No. 1/2. p. 241-253
Publisher: Amsterdam : Elsevier Science.
CODEN: GENED6; ISSN: 0378-1119

NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English

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Agricultural Library of the Department of Agriculture of the
United States
of America. It contains copyrighted materials. All rights
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(2003) on STN

AN 97:1732 AGRICOLA
DN IND20538639
TI Evolution of floral scent in Clarkia: novel patterns of
S-linalool

synthase gene expression in the C. breweri flower.

AU Dudareva, N.; Cseke, L.; Blanc, V.M.; Pichersky, E.

CS University of Michigan, Ann Arbor, MI.

SO The Plant cell, July 1996. Vol. 8, No. 7. p. 1137-1148
Publisher: [Rockville, MD : American Society of Plant

Physiologists,

c1989-

CODEN: PLCEEW; ISSN: 1040-4651

NTE Includes references

CY Maryland; United States

DT Article

FS U.S. Imprints not USDA, Experiment or Extension

LA English

L8 ANSWER 5 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
on STN

AN 2002:610361 BIOSIS

DN PREV200200610361

TI Isoprene synthase and the relationship to the **terpene synthase** family.

AU Yeh, Sansun (1); Gong, Deming (1); Sharkey, Thomas D. (1)

CS (1) University of Wisconsin-Madison, Madison, WI:

syeh2@students.wisc.edu

USA

SO Plant Biology (Rockville), (2002) Vol. 2002, pp. 160.

<http://www.aspb.org/meetings/>. print.

Meeting Info.: Annual Meeting of the American Society of Plant Biologists

on Plant Biology Denver, CO, USA August 03-07, 2002 American Society of Plant Biologists

DT Conference

LA English

L8 ANSWER 6 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
on STN

AN 2002:598703 BIOSIS

DN PREV200200598703

TI Defense responses in *Medicago truncatula* to herbivory and insect-derived salivary factors of *Spodoptera exigua*.

AU Korth, Kenneth L. (1); Bede, Jacqueline C. (1); Gomez, S. Karen (1);

Doege, Sarah (1); Nakata, Paul

CS (1) Dept of Plant, University of Arkansas, Fayetteville, AR: kkorth@uark.edu USA

SO Plant Biology (Rockville), (2002) Vol. 2002, pp. 126.

<http://www.aspb.org/meetings/>. print.

Meeting Info.: Annual Meeting of the American Society of Plant Biologists

on Plant Biology Denver, CO, USA August 03-07, 2002 American Society of Plant Biologists

DT Conference

LA English

L8 ANSWER 7 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
on STN

AN 2002:598392 BIOSIS

DN PREV200200598392

TI Isoprene synthase and the relationship to the **terpene synthase** family.

AU Sansun, Yeh (1); Sharkey, Thomas D. (1); Gong, Deming

CS (1) Dept. Botany, Univ. Wisc. Madison, Madison, WI, 53706:

syeh2@students.wisc.edu USA

SO Plant Biology (Rockville), (2002) Vol. 2002, pp. 30.

<http://www.aspb.org/meetings/>. print.

Meeting Info.: Annual Meeting of the American Society of Plant Biologists

on Plant Biology Denver, CO, USA August 03-07, 2002 American Society of Plant Biologists

DT Conference

LA English

L8 ANSWER 8 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
on STN

AN 2002:369697 BIOSIS

DN PREV200200369697

TI Dissecting the chemical wizardry of **terpene synthases**.

AU Greenhagen, Bryan T. (1); Chappell, Joe (1)

CS (1) Plant Physiology, Biochemistry, and Molecular Biology Program,

University of Kentucky, N221W Ag Sci Center North, Lexington, KY, 40546
USA

SO FASEB Journal, (March 22, 2002) Vol. 16, No. 5, pp. A896.

<http://www.fasebj.org/>. print.

Meeting Info.: Annual Meeting of Professional Research Scientists on

Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002

ISSN: 0892-6638.

DT Conference

LA English

L8 ANSWER 9 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
on STN

AN 2000:61462 BIOSIS

DN PREV200000061462

TI (3R)-linalool synthase from *Artemisia annua* L.: cDNA isolation, characterization, and wound induction.

AU Jia, Jun-Wei; Crock, John; Lu, Shan; Croteau, Rodney; Chen, Xiao-Ya (1)

CS (1) National Laboratory of Plant Molecular Genetics, Shanghai Institute of

Plant Physiology, Shanghai Institutes for Biological Science,
Chinese

Academy of Sciences, 300 Fenglin Road, Shanghai, 200032 China

SO Archives of Biochemistry and Biophysics, (Dec. 1, 1999) Vol.

372, No. 1,

pp. 143-149.

ISSN: 0003-9861.

DT Article

LA English

SL English

L8 ANSWER 10 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS

INC. on STN

AN 1999:8381 BIOSIS

DN PREV199900008381

TI **Structure** and evolution of linalool synthase.

AU Cseke, Leland; Dudareva, Natalia; Pichersky, Eran (1)

CS (1) Dep. Biol., Univ. Michigan, Ann Arbor, MI 48109-1048 USA

SO Molecular Biology and Evolution, (Nov., 1998) Vol. 15, No. 11,
pp.

1491-1498.

ISSN: 0737-4038.

DT Article

LA English

L8 ANSWER 11 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS

INC. on STN

AN 1997:459541 BIOSIS

DN PREV199799758744

TI Structural basis for cyclic terpene biosynthesis by tobacco
5-epi-aristolochene synthase.

AU Starks, Courtney M.; Back, Kyoungwhan; Chappell, Joseph; Noel,
Joseph P.

(1)

CS (1) Structural Biology Lab., Salk Inst. Biological Studies,
10010 North

Torrey Pines Road, La Jolla, CA 92037 USA

SO Science (Washington D C), (1997) Vol. 277, No. 5333, pp.
1815-1820.

ISSN: 0036-8075.

DT Article

LA English

L8 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:555294 CAPLUS

TI Induction of volatile terpene biosynthesis and diurnal emission
by methyl

jasmonate in foliage of Norway spruce

AU Martin, Diane M.; Gershenzon, Jonathan; Bohlmann, Joerg

CS Biotechnology Laboratory, University of British Columbia,
Vancouver, BC,

V6T 1Z3, Can.
 SO Plant Physiology (2003), 132(3), 1586-1599
 CODEN: PLPHAY; ISSN: 0032-0889
 PB American Society of Plant Biologists
 DT Journal
 LA English

L8 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2000:210327 CAPLUS
 DN 132:248006
 TI Crystal **structure** of tobacco 5-epi-aristolochene synthase and
 its use in designing modified active sites for production of new
 terpenoid

products
 IN Chappell, Joseph; Manna, Kathleen R.; Noel, Joseph P.; Starks,
 Courtney M.

PA University of Kentucky Research Department, USA; The Salk
 Institute for
 Biological Studies

SO PCT Int. Appl., 450 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000017327	A2	20000330	WO 1999-US21419	19990917
	WO 2000017327	A3	20010531		
CR, CU,	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,			
IL, IN,		CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,			
MD, MG,		IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,			
SK, SL,		MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,			
BY, KG,		TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,			
		KZ, MD, RU, TJ, TM			
CY, DE,	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,			
BJ, CF,		DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF,			
		CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
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	EP 1121422	A2	20010808	EP 1999-969434	19990917
MC, PT,	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,			
		IE, FI			

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L8 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Novel synthases and the corresponding nucleic acids encoding such
 synthases are disclosed herein. Such synthases possess an
 active site
 pocket that includes key amino acid residues that are modified
 to generate
 desired terpenoid reaction intermediates and products. Synthase
 modifications are designed based on the 3-dimensional
 coordinates of
 tobacco 5-epi-aristolochene synthase, with or without a
 substrate bound in
 the active site.

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